

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1-7. (Cancelled)

8. (New) A capacitor assembly for a converter appliance, comprising:

a base unit comprising a base frame or heat sink;

a capacitor having a front, a back, and two sides;

two side mechanical holders for mounting the capacitor to the base unit, one side mechanical holders disposed on and connected to each side of the capacitor;

at least one electrical connector for connection to an external circuit;

at least one measurement sensor; and

a front mechanical holder disposed at the front of the capacitor for attachment of the at least one electrical connector and measurement sensor,

wherein the capacitor assembly is designed as a load-bearing component of the converter appliance.

9. (New) The capacitor assembly as claimed in Claim 8, further comprising one or more electronic power semiconductor drive circuits attached to the front mechanical holder.

10. (New) The capacitor assembly as claimed in Claim 8, wherein the capacitor has a top surface and further comprising a power semiconductor electronic control circuit attached to the top surface of the capacitor.

11. (New) The capacitor assembly as claimed in Claim 8, wherein the at least one measurement sensors comprise one or more current transformers.

12. (New) The capacitor assembly as claimed in Claim 8, wherein the at least one measurement sensors comprise a voltage transformer.

13. (New) The capacitor assembly as claimed in Claim 8, further comprising electrical connections on the back of the capacitor for connection to one or more busbars.

14. (New) The capacitor assembly as claimed in Claim 8, wherein the capacitor comprises a plurality of individual capacitors.

15. (New) The capacitor assembly as claimed in Claim 8, wherein the side mechanical holders comprise flat plates positioned substantially perpendicular to the base unit.

16. (New) A converter appliance comprising:

a capacitor assembly comprising:

a base unit comprising a heat sink;

a capacitor having a front, a back, and two sides;

a front mechanical holder positioned at the front of the capacitor for attachment of electrical power connections; and
two side mechanical holders for mounting the capacitor to the base unit, one side mechanical holders disposed on and connected to each side of the capacitor; and

a plurality of electrical connections on the back of the capacitor;

a plurality of power semiconductors connected to the heat sink; and

a plurality of busbars connected to the power semiconductors and the electrical connections on the back of the capacitor.

17. (New) The converter appliance as claimed in Claim 16, further comprising one or more electronic drive circuits attached to the front mechanical holder for driving the power semiconductors.

19. (New) The converter appliance as claimed in Claim 16, further comprising one or more measurement sensors attached to the front mechanical holder.

20. (New) The converter appliance as claimed in Claim 16, wherein the capacitor comprises a plurality of individual capacitors.

21. (New) The converter appliance as claimed in Claim 16, wherein the side mechanical holders comprise flat plates positioned substantially perpendicular to the base unit.